SIEMENS

Data sheet

3RA2318-8XB30-2BW4

Reversing contactor assembly AC-3, 7.5 kW/400 V, 48 V DC 3-pole, Size S00 Spring-type terminal electrical and mechanical interlock



product brand name	SIRIUS	
Product designation	Reversing contactor assembly	
Product type designation	3RA23	
Manufacturer's article number		
 1 of the supplied contactor 	<u>3RT2018-2BW42</u>	
 2 of the supplied contactor 	<u>3RT2018-2BW42</u>	
 of the supplied RH assembly kit 	3RA2913-2AA2	

General technical data			
Size of contactor	S00		
Product extension			
Auxiliary switch	Yes		
 Insulation voltage with degree of pollution 3 at 	690 V		
AC rated value			
Surge voltage resistance rated value	6 kV		
 protection class IP on the front 	IP20		
Shock resistance at rectangular impulse			
• at AC	7,3g / 5 ms, 4,7g / 10 ms		
• at DC	7.3g / 5 ms, 4.7g / 10 ms		
Shock resistance with sine pulse			

• at DC 11.4g / 5 ms, 7.3g / 10 ms Mechanical service life (switching cycles) 0 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0 000 000 Reference code acc. to DIN EN 81346-2 Q Ambient temperature • • during operation 25 +60 °C • during storage -65 +60 °C • during storage -65 +60 °C • during operation -25 +60 °C • during storage -65 +60 °C • during torage -65 +60 °C • during operation -25 +60 °C • during storage 0 • during storage 0 • during storage 0 • during storage 0 • at AC-3 rated value maximum 680 V Operating durent 16 A • at AC-3 rated value 20 A - at 400 V rated value 20 A - at 110 V rated value 20	• at AC	11,4g / 5 ms, 7,3g / 10 ms		
Mechanical service life (switching cycles) 0 • of contactor typical 10 000 000 • of the contactor with added auxiliary switch 10 000 000 Beference code acc. to DIN EN 81346-2 Q Vinbiant conditions 2 000 m Installation altitude at height above sea level • maximum • maximum 2 000 m Ambient temperature - 460 °C • during operation -25 +60 °C • during storage -55 +60 °C • at 0 Cortacts for main contacts 0 Operating current - at 40.3 rated value maximum 690 V Operating current 16 A				
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 — at 110 V rated value • with 3 current paths in series at DC-3 at DC-5 	• with 2 current paths in series at DC-3 at DC-5			
• with 3 current paths in series at DC-3 at DC-5	— at 24 V rated value	20 A		
	— at 110 V rated value	0.35 A		
- at 24 V rated value 20 A	• with 3 current paths in series at DC-3 at DC-5			
	— at 24 V rated value	20 A		

— at 110 V rated value	20 A	
Operating power	2077	
• at AC-3		
— at 400 V rated value	7.5 kW	
— at 500 V rated value	7.5 kW	
	7.5 kW	
— at 690 V rated value	5.5 kW	
• at AC-4 at 400 V rated value		
No-load switching frequency Operating frequency at AC-3 maximum	1 500 1/h	
Operating requency at AC-3 maximum	1 000 1/h	
Control circuit/ Control		
Type of voltage of the control supply voltage	DC	
Control supply voltage 1		
• at DC rated value	48 V	
Closing power of magnet coil at DC	4 W	
Holding power of magnet coil at DC	4 W	
Auxiliary circuit		
Operating current of auxiliary contacts at AC-12 maximum	10 A	
 Operating current of auxiliary contacts at AC-15 at 230 V 	6 A	
 operating current of auxiliary contacts at AC-15 at 400 V 	3 A	
 operating current of auxiliary contacts at DC-13 at 24 V 	10 A	
 Operating current of auxiliary contacts at DC-13 at 60 V 	2 A	
 Operating current of auxiliary contacts at DC-13 at 110 V 	1 A	
 Operating current of auxiliary contacts at DC-13 at 220 V 	0.3 A	
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles	
UL/CSA ratings		
Full-load current (FLA) for three-phase AC motor		
• at 480 V rated value	14 A	
• at 600 V rated value	11 A	
Yielded mechanical performance [hp]		
 for single-phase AC motor 		
— at 110/120 V rated value	1 hp	
— at 230 V rated value	2 hp	
 for three-phase AC motor 		
— at 200/208 V rated value	3 hp	
— at 220/230 V rated value	5 hp	

— at 460/480 V rated value	10 hp	
— at 575/600 V rated value	10 hp	
Contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection Design of the fuse link		
for short-circuit protection of the main circuit		
- with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A	
	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A	
— with type of assignment 2 required	fuse gG: 10 A	
 for short-circuit protection of the auxiliary switch required 	luse go. To A	
Installation/ mounting/ dimensions		
mounting position	+/-180° rotation possible on vertical mounting surface; can be	
	tilted forward and backward by +/- 22.5° on vertical mounting surface	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail	
Height	84 mm	
Width	90 mm	
Depth	83 mm	
Required spacing		
 with side-by-side mounting 		
— forwards	6 mm	
— Backwards	0 mm	
— upwards	6 mm	
— downwards	6 mm	
— at the side	6 mm	
 for grounded parts 		
— forwards	6 mm	
— Backwards	0 mm	
— upwards	6 mm	
— at the side	6 mm	
— downwards	6 mm	
 for live parts 		
— forwards	6 mm	
— Backwards	0 mm	
— upwards	6 mm	
— downwards	6 mm	
— at the side	6 mm	
Connections/ Terminals		
Type of electrical connection for main current	spring-loaded terminals	
circuit		

 Type of electrical connection for auxiliary and control current circuit 	spring-loaded terminals	
Type of connectable conductor cross-sections		
 for main contacts 		
— solid	2x (0.5 4 mm²)	
— single or multi-stranded	2x (0,5 4 mm²)	
 — finely stranded with core end processing 	2x (0.5 2.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
 at AWG conductors for main contacts 	1x (20 12)	
Type of connectable conductor cross-sections		
 for auxiliary contacts 		
— single or multi-stranded	2x (0,5 2,5 mm²)	
— finely stranded with core end processing	2x (0.5 1.5 mm²)	
— finely stranded without core end	2x (0.5 1.5 mm²)	
processing		
 at AWG conductors for auxiliary contacts 	2x (20 14)	
Safety related data		
B10 value		
 with high demand rate acc. to SN 31920 	1 000 000	
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	40 %	
 with high demand rate acc. to SN 31920 	75 %	
• with high demand rate acc. to SN 31920 Failure rate [FIT]	75 %	
	75 % 100 FIT	
Failure rate [FIT]		
 Failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to 	100 FIT	
 Failure rate [FIT] • with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 	100 FIT	
Failure rate [FIT] • with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 Communication/ Protocol	100 FIT 20 y	
Failure rate [FIT] • with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 Communication/ Protocol product function bus communication	100 FIT 20 y	
Failure rate [FIT] • with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 Communication/ Protocol product function bus communication Protocol is supported	100 FIT 20 y Yes	

General Product Approval		Declaration of	Declaration of Conformity		
(SA)		EHC	EG-Konf.	Miscellaneous	Type Test Certific- ates/Test Report
Test Certific- ates	Marine / Shipping				
Special Test Certi- ficate	CAN SURFACE		Lloyd's Register		

Marine / Shipping	other	Railway
RMRS	Confirmation	Vibration and Shock

LRS

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

ABS

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2318-8XB30-2BW4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2318-8XB30-2BW4

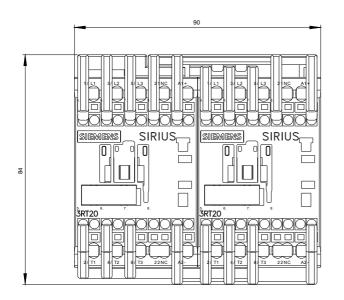
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-2BW4

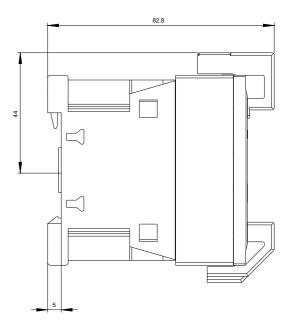
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2318-8XB30-2BW4&lang=en

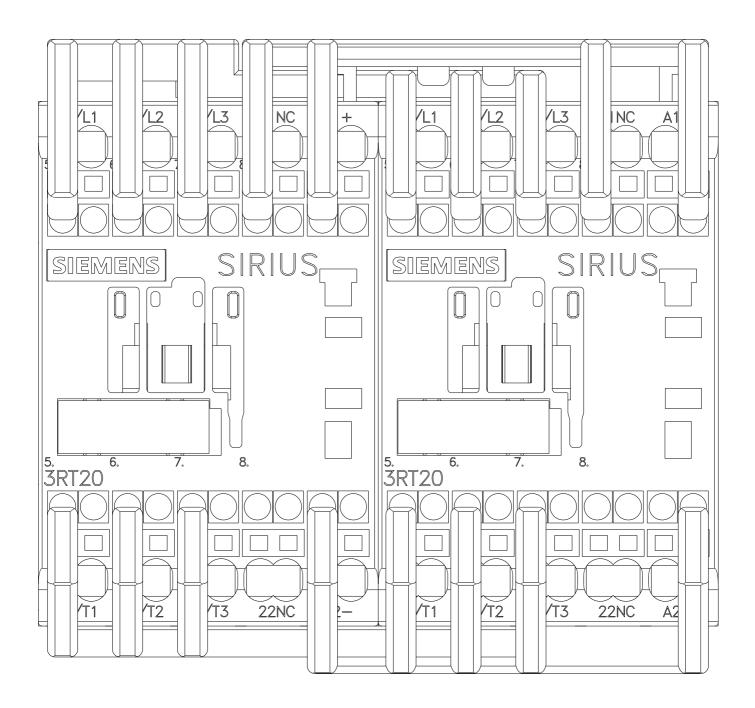
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-2BW4/char

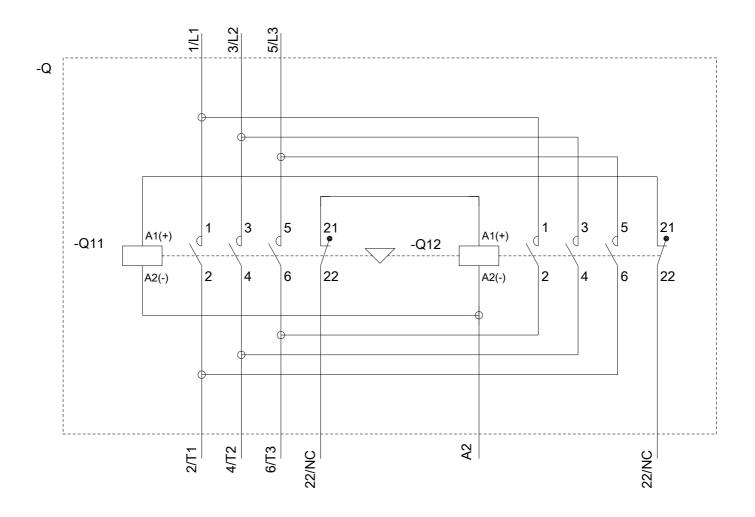
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2318-8XB30-2BW4&objecttype=14&gridview=view1

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08/15/2020